

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID: M108547  
Date Received: 08/10/06  
Date Extracted: 08/11/06  
Date Analyzed: 08/11/06  
Matrix: Water  
Units: ug/L (ppb)

Client: Alaskan Copper Works  
Project: PO# M108547, F&BI 608124  
Lab ID: 608124-01 10x  
Data File: 608124-01 10x.051  
Instrument: ICPMS1  
Operator: btb

Internal Standard:	% Recovery:	Lower Limit:	Upper Limit:
Germanium	87	60	125
Indium	83	60	125
Holmium	86	60	125

Analyte:	Concentration ug/L (ppb)
Chromium	967
Nickel	1,660
Copper	1,730
Zinc	136

# FRIEDMAN & BRUYA, INC.

## ENVIRONMENTAL CHEMISTS

### Analysis For Total Metals By EPA Method 200.8

Client ID:	Method Blank	Client:	Alaskan Copper Works
Date Received:	Not Applicable	Project:	PO# M108547, F&BI 608124
Date Extracted:	08/11/06	Lab ID:	I6-331 mb
Date Analyzed:	08/11/06	Data File:	I6-331 mb.040
Matrix:	Water	Instrument:	ICPMS1
Units:	ug/L (ppb)	Operator:	btb

Internal Standard:	% Recovery:	Lower	Upper
Germanium	96	Limit:	Limit:
		60	125

Analyte:	Concentration ug/L (ppb)
Chromium	<1
Nickel	<1
Copper	<1
Zinc	<1

**FRIEDMAN & BRUYA, INC.****ENVIRONMENTAL CHEMISTS**

Date of Report: 08/16/06

Date Received: 08/10/06

Project: Metro Self Monitor, PO# M108547, F&amp;BI 608124

**QUALITY ASSURANCE RESULTS  
FOR THE ANALYSIS OF WATER SAMPLES  
FOR METALS BY EPA METHOD 200.8**

Laboratory Code: 608126-01 (Duplicate)

Analyte	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Chromium	ug/L (ppb)	7.73	8.30	7	0-20
Nickel	ug/L (ppb)	2.26	2.17	4	0-20
Copper	ug/L (ppb)	2.71	2.81	4	0-20
Zinc	ug/L (ppb)	7.91	7.87	1	0-20

Laboratory Code: 608126-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result	Percent Recovery MS	Acceptance Criteria
Chromium	ug/L (ppb)	20	7.73	100 b	50-150
Nickel	ug/L (ppb)	20	2.26	94	50-150
Copper	ug/L (ppb)	20	2.71	90	50-150
Zinc	ug/L (ppb)	50	7.91	92	50-150

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Chromium	ug/L (ppb)	20	107	70-130
Nickel	ug/L (ppb)	20	104	70-130
Copper	ug/L (ppb)	20	105	70-130
Zinc	ug/L (ppb)	50	104	70-130

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.



FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.  
Charlene Morrow, M.S.  
Yelena Aravkina, M.S.  
Bradley T. Benson, B.S.  
Kurt Johnson, B.S.

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e-mail: fbi@isomedia.com

August 16, 2006

DUPLICATE COPY

INVOICE # 06ACU0816-1

Accounts Payable  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M108547, F&BI 608124 - Results of testing  
requested by Gerry Thompson for material submitted on August 10, 2006.

1 sample analyzed for Total Chromium, Copper, Nickel and Zinc  
by Method 200.8 @ \$80 per sample

\$ 80.00

Amount Due .....

\$ 80.00

FEDERAL TAX ID # (b) (6)

608124

## SAMPLE CHAIN OF CUSTODY

ME 08/10/06

AI3

Send Report To

Company

Address

City, State, ZIP

Phone #

Fax #

SAMPLERS (signature)

PROJECT NAME/NO.

PO #

REMARKS

Page # of

TURNAROUND TIME

☐ Standard (2 Weeks)☐ RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

☐ Dispose after 30 days☐ Return samples☐ Will call with instructions

Sample ID	Lab ID	Date	Time	Sample Type	# of containers	ANALYSES REQUESTED										Notes
						TPH-Diesel	TPH-Gasoline	BTEX by 8021B	VOCs by 8260	SVOCs by 8270	HFS					
M 108547	01	8/10/06	12:30	ADD	1											

Friedman &amp; Bruya, Inc.

3012 16th Avenue West

Seattle, WA 98119-2029

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

PRINT NAME

COMPANY

DATE

TIME

Relinquished by:

Received by:

Relinquished by:

Received by:

G. Thompson

Nhan Phan

AKW

FBI

8/10/06

8/10/06

1:05pm

1:05pm

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

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August 16, 2006

Gerry Thompson, Project Manager  
Alaskan Copper Works  
628 South Hanford  
Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on August 10, 2006 from the Metro Self Monitor, PO# M108547, F&BI 608124 project. There are 3 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl  
Project Manager

Enclosures  
ACU0816R